WPG2401

802.11b/g Wireless LAN PCI Card

The **WPG2401** is an IEEE802.11g compliant wireless PCI Card. It provides superior performance and interoperability within a mixed mode network (802.11b and 802.11g). The **WPG2401** is backwards compliant with all 802.11b and 802.11b+ wireless equipment, making it a seamless integrator for the most popular wireless networks. Plus, this all-new wireless PCI Card provides a high transfer rate up to 54Mbps for today's high-speed broadband connections.

The **WPG2401** allows you to take full advantage of your PC's mobility with access to real-time information and online services anytime and anywhere. Plus, with the network installation simplicity and flexibility, you can eliminate the need to pull cable through walls and ceilings and allow the network to go where wires cannot go. Exploring WWW and augmenting networks can never be done more easily.

FEATURES

- Complies with IEEE 802.11b and 802.11g standard for 2.4GHz Wireless LAN.
- Compliant with PCI 2.2 Standard
- Works with all existing network infrastructure.
- Complies with specific wireless products and services.
- Capable of up to 256-Bit WEP Encryption.
- Freedom to roam while staying connected.
- 22-Mbps Packet Binary Convolution Coding (PBCC) (according to the IEEE Std 802.11b high-rate specification)
- Up to 54 Mbps data transfer rate in 802.11g mode of operation
- Supports Windows98/2000/ME/XP
- Lower power consumption.
- Easy to install and configure.

SPECIFICATIONS

Standard	IEEE 802.11b, IEEE 802.11g Standard
Host Interface	PCI Interface 2.2
Operating Voltage	5V ± 5%
Power Requirement	Power consumption at 11g TX: 630mA, RX: 350mA Power consumption at 11b TX: 600mA, RX: 350mA
Antenna Type	Dipole Antenna
Frequency Range	**2.412GHz-2.4835GHz**
Modulation	11g:Orthogonal Frequency Division Multiplexing (OFDM) 54Mbps/48Mbps:QAM-64 36Mbps/24Mbps:QAM-16 18Mbps/12Mbps:QPSK 9Mbps/6Mbps:BPSK 11b+: Packet Binary Convolution Coding (PBCC) 22Mbps/11Mbps/5.5Mbps:PBCC 11b:Direct Sequence Spread Spectrum (DSSS) 11Mbps/5.5Mbps:CCk 2Mbps:DQPSK 1Mbps:DBPSK

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Number of Selectable Channels	USA, Canada (FCC): 11 channels (2.412GHz~2.462GHz) Europe (CE): 13 channels (2.412GHz~2.472GHz) Japan (TELEC): 14 channels (2.412GHz~2.4835GHz)
Modulation Technique	802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK) 802.11g: Orthogonal frequency division multiplexing
Data Rate	802.11b(22Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps) 802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
Preamble	802.11b: Both Short and Long preamble 802.11g: Long preamble only
Security	Hardware-Based Encryption/Decryption Using 64-, 128-, and 256-Bit Wired-Equivalent Privacy (WEP) Keys, WPA and WPA2 are also supported.
Output Power	54Mbps OFDM: 12dBm~14dBm; 11Mbps CCK: 16dBm~18dBm
Receiver Sensitivity	-72dBm at 54Mpbs, 10% PER -72dBm at 48Mpbs, 10% PER -75dBm at 36Mpbs, 10% PER -79dBm at 24Mpbs, 10% PER -82dBm at 18Mpbs, 10% PER -83dBm at 22Mbps, 8% PER -84dBm at 12Mpbs, 10% PER -82dBm at 11Mpbs, 8% PER -87dBm at 9Mpbs, 10% PER -88dBm at 6Mbps, 10% PER -85dBm at 5.5Mpbs, 8% PER -86dBm at 2Mpbs, 8% PER -89dBm at 1Mpbs, 8% PER
Range	Indoors: up to 100meters; Outdoors: up to 400meters
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Physical Specifications	Weight: 49g (Antenna not included) Dimension: 119.91 (L) x 46.7(W) mm
Environment Specifications	Operating Temperature: 0~60℃ ambient temperature Storage Temperature: -20~70℃ ambient temperature Operating humidity: 90% maximum (non-condensing) Storage humidity: 90% maximum (non-condensing)
Supported OS	Windows 98SE Windows ME Windows 2000 Windows XP
EMC Certification	FCC Part 15.247 in US. EN300328 and EN300826 (EN301489-17) in Europe

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